

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449/PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/602,998		
		Filing Date	June 23, 2003		
		First Named Inventor	Thomas M. Brennan		
		Art Unit	1645 1637		
		Examiner Name	Unknown Chris Babic		
Sheet	1	of	27	Attorney Docket Number	28690-705.302

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AMB		4,683,202	07/28/87	Mullis	
		4,834,946	05/30/89	Levin	
		5,143,854	09/01/92	Pirrung, et al.	
		5,202,231	04/13/93	Dramanac, et al.	
		5,412,087	05/02/95	McGall, et al.	
		5,445,934	08/29/95	Fodor, et al.	
		5,445,943	08/29/95	Hoenes	
		5,474,796	12/12/95	Brennan	
		5,489,678	02/06/96	Fodor, et al.	
		5,492,806	02/20/96	Dramanac, et al.	
		5,525,464	06/11/96	Dramanac	
		5,545,568	08/13/96	Ellman	
		5,556,749	09/17/96	Mitsushashi, et al.	
		5,571,639	11/05/96	Hubbell, et al.	
		5,614,608	03/25/97	Krchnak, et al.	
		5,650,277	07/22/97	Navot, et al.	
		5,667,972	06/16/97	Dramanac, et al.	
		5,679,773	10/21/97	Holmes	
		5,691,141	11/25/97	Köster	

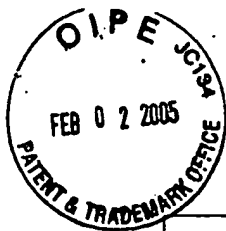
**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
AMB		EP 717113A2	06/19/96	Affymetrix, Inc.		
		WO 92/15712	09/17/92	Molecular Tools, Inc.		
		WO 93/09250	05/13/93	Adelaide Children's Hospital University of South Australia		
		WO 93/17126	09/02/93	The Public Health Research Institute of the City		

Examiner Signature		Date Considered	4/12/05
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				First Named Inventor	Thomas M. Brennan
				Art Unit	1645/637
				Examiner Name	Unknown Chris Basic
Sheet	2	of	27	Attorney Docket Number 28690-705.302	

### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
CM/3		5,695,940	12/09/97	Dramanac, et al.	
		5,700,637	12/23/97	Southern	
		5,700,642	12/23/97	Monoforte, et al.	
		5,710,028	01/20/98	Eyal, et al.	
		5,739,386	04/14/98	Holmes	
		5,744,305	04/28/98	Fodor, et al.	
		5,800,992	09/01/98	Fodor, et al.	
		5,830,655	11/03/98	Monoforte, et al.	
		5,837,832	11/17/98	Chee, et al.	
		5,846,943	12/08/98	Hindsgaul, et al.	
		5,858,653	01/12/99	Duran, et al.	
		5,858,659	01/12/99	Sapolsky, et al.	
		5,871,928	02/16/99	Fodor, et al.	
		5,888,819	03/30/99	Goelet, et al.	
		5,889,165	03/30/99	Fodor, et al.	
		5,917,016	06/29/99	Holmes	
		5,919,626	07/06/99	Shi, et al.	
		5,922,534	07/13/99	Lichtenwalter	
		5,927,547	07/27/99	Papen, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
CM/3		WO 95/11995	05/04/95	Affymax Technologies N.V.		
		WO 97/28282	08/	Stratagene		
		WO 97/43447	11/20/97	Motorola		
		WO 97/45730	12/04/97	Biodx		
		WO 98/09735	03/12/98	International Business machine Corporation		

Examiner Signature		Date Considered	4/12/05
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				First Named Inventor	Thomas M. Brennan
				Art Unit	<del>1645</del> 1637
				Examiner Name	Unknown <i>Chris Babic</i>
Sheet	3	of	27	Attorney Docket Number 28690-705.302«CaseNumber»	

U.S. PATENT DOCUMENTS					
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<i>AMB</i>		5,929,208	07/27/99	Heller, <i>et al.</i>	
		5,972,619	10/26/99	Dramanac, <i>et al.</i>	
		5,985,551	11/16/99	Brennan	
		5,985,557	11/16/99	Prudent, <i>et al.</i>	
		5,985,761	11/16/99	Saprks, <i>et al.</i>	
		6,001,567	12/14/97	Brow, <i>et al.</i>	
		6,018,041	01/25/00	Dramanac, <i>et al.</i>	
		6,025,136	02/15/00	Drmanac	
		6,028,189	02/22/00	Blanchard	
		6,030,782	02/29/00	Anderson, <i>et al.</i>	
		6,040,138	03/21/00	Lockhart, <i>et al.</i>	
		6,043,031	03/28/00	Köster, <i>et al.</i>	
		6,054,270	04/25/00	Southern	
		6,074,823	06/13/00	Köster	
		6,083,763	07/04/00	Balch	
		6,090,995	07/18/00	Reich, <i>et al.</i>	
		6,103,479	08/15/00	Taylor	
		6,197,506	03/06/01	Fodor, <i>et al.</i>	
		6,210,894	04/03/01	Brennan	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>2</sup> (if known)				
AMB		WO 99/21957	05/06/99	The University of North Carolina at Chapel Hill		
1		WO 98/22487	05/28/98	Synsorb Biotech, Inc.		
		WO 98/28438	07/02/98	Diatech Pty. Ltd.		
		WO 98/30883	07/16/98	Sheldon, Edward L.		

Examiner Signature	<i>[Signature]</i>	Date Considered	4/12/05
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			Art Unit	<del>1645</del> 1637	
			Examiner Name	Unknown Chris Basz	
Sheet	4	of	27	Attorney Docket Number	28690-705.302

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CMBS		6,291,183	09/18/01	Pirrung, et al.	
		6,309,822	10/30/01	Fodor, et al.	
		6,309,823	10/30/01	Cronin, et al.	
		6,309,831	10/30/01	Goldberg, et al.	
		6,310,189	10/30/01	Fodor, et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
CMBS		WO 98/38490	09/03/98	Biodx, Inc.		
		WO 98/38846	09/11/98	Affymetrix, Inc.		
		WO 98/41531	09/24/98	University of Washington		
		WO 98/46247	10/22/98	Wisconsin Alumni Research Foundations		
		WO 98/47003	10/22/98	United States of America		
		WO 98/50403	11/12/98	THIRD WAVE TECHNOLOGIES, INC.		
		WO 98/54362	12/03/98	The Perkin-Elmer Corporation		
		WO 98/56954	12/17/98	Affymetrix, Inc		
		WO 99/05308	02/04/99	RAPIGENE, INC.		
		WO 99/06593	02/11/99	Sarnoff Corporation		
		WO 99/06834	02/11/99	IXSYS, Incorporated		
		WO 99/07888	02/18/99	Bulynk, Martha L.		
		WO 99/09073	02/25/99	Akazo Nobel N.V.		
		WO 98/21221	05/22/98	Synsorb Biotech, Inc		
		WO 94/11530	05/26/94	Trustees of Boston University		
		WO 93/17136	09/02/93	The Dow Chemical Company		
		WO 98/33586	08/06/98	Protopene Laboratories, Inc.		

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CMEZ		WO 99/14228	03/25/99	Affymetrix, Inc		
		WO 99/27137	06/03/99	Orchid Biocomputer, Inc.		
		WO 99/37812	07/29/99	Orchid Biocomputer, Inc		
		WO 99/39004	08/05/99	The government of the United States of America, Secretray, Department of Health and Human Services		
		WO 99/47701	09/23/99	November AG Novus Medicatus Bertling Gesellschaft fur Molekulare Medizin		
		WO 99/54509	10/28/99	Affymetrix, Inc.		
		WO 99/58708	11/18/99	Rosetta Inpharmatics, Inc		
		WO 00/03246	01/20/00	Cellomics, Inc.		
		WO 00/17624	03/30/00	Cellomics, Inc.		
		WO 00/17643	03/30/00	Cellomics, Inc.		
		WO 00/50872	08/31/00	Cellomics, Inc.		
Examiner Signature				Date Considered	4/12/05	

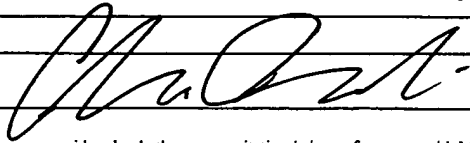
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				Examiner Name	<del>Unknown</del> Chris Basic	
Sheet	6	of	27	Attorney Docket Number		28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CM B		ABRAMSON et al., Nucleic acid amplification technologies, Curr. Opin. Biotechnol., 1993, pp.41-47, vol. 4	
		ABRAVAYA et al., Detection of poinT mutations with a modified ligase chain reaction, Nucleic Acids Res., 1995, pp 675-682, vol 23	
		ADINOLFI et al., Solid Phase Synthesis of Oligosaccharides, Tetrahedron Lett., 1996, pp 5007-5010, 37 (28)	
		ALBERICIO et al., Covergent Solid-Phase Peptide Synthesis, Methods Enzymol, 1997, pp 313-316, vol 289	
		ANDRES et al., Transistion metal mediated reactions in combinatorial synthesis, Curr. Opin. Chem. Biol., 1998, pp353-362, vol 2	
		ATHERTON et al., Solid Phase Peptide Synthesis, A practical approach, IRL press, 1989,	
		AUSUBEL et. al., Current Protocols in Molecular Biology, John Wiley & Sons, 1989, vol. 1-2	
		BEIER et. al., Versatile Derivatisation of solid support media for covalent bonding on DNA-microchips, Nucleic Acids Res., 1999, pp 1970-1977, vol. 27 (9)	

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				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	1645 1637
				Examiner Name	Unknown Chris Basic
Sheet	7	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CMB		BLANCHARD et. al., Syntheic DNA Arrays, Biosensors and Bioelectronics, 1996, pp 687-690, vol. 11	
		BLIXT et. al., Solid-Phase Enzymatic Synthetic of a Sialy Lewis X Tetrassaccharide on a Sepharose Matrix, J. Org. Chem., 1998, pp.2705-2710, vol. 63	
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		BULYK et. al., Quantifying DNA-protein interactions by double-stranded DNA arrays, Nature Biotechnology, 1999, 573-577, 17	
		BURG et. al., Real-Time Fluorescence Detection of RNA Amplified by QB Replicase, Anal. Biochem., 1995, pp263-272, vol. 230	
		CANTOR and SCHIMMEL et. al., Part 1: The conformation of biological macromolecules, Biophysical Chemistry, San Francisco, W.H. Freeman, 1980	

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		CZARNIK, et. al., Guest Editorial, Accounts Chem. Rev., 1996, pp112-170, vol. 29	
		DANISHEFSKY et. al., A Strategy for the Solid-Phase Synthetic of Oligosaccharides, Science, 1993, pp1307-1309, vol 260	
		DERISI, et. al., Exploring the Metabolic and Genetic Control of Gene Expression on A Genomic Scale, Science, 1997, pp680-686, vol 278	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	
		DRMANAC et. al., Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method, Genomics, 1989, pp114-28, vol 4	
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				First Named Inventor	Thomas M. Brennan	
				Art Unit	<del>4643</del> 1637	
				Examiner Name	Unknown <i>Chris Babic</i>	
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<i>[Vertical line]</i>		DRMANAC et. al., Accurate sequencing by hybridization for DNA diagnostics and individual genomics, Nature Biotechnology, 1998, pp 54-58, vol 16	
		DUGGAN et. al., Expression profiling using cDNA microarrays, Nature Genetics Supplement, 1999, pp 10-14, 21	
		ECKERT et al., DNA Polymerase Fidelity and the Polymerase Chain Reaction, PCR Methods and Applications, 1991, pp17, vol 1	
		EDMAN et al., Electric field directed nucleic acid hybridization on microchips, Nucleic Acids Research, 1997, pp 4907-4914, vol. 25(24)	
		EISENBERG et al., Protein function in the post-genomic era, Nature, 2000, pp 823-826, vol. 405	
		FODOR et al., Light-Directed, Spatially Addressable Parallel Chemical Synthesis, Science, 1991, pp 767-773, vol 251	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	

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Examiner Name	Unknown Chris Basic				
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		FODOR et al., Light-Directed, Spatially Addressable Parallel Chemical Synthesis, Science, 1991, pp 767-773, vol 251	
		FRUCHTEL, Organic Chemistry and Solid Supports, Angew. Chem. Int. Ed. Engl., 1996, pp17-42, vol. 35	

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				First Named Inventor	Thomas M. Brennan
				Art Unit	1645 1637
Examiner Name	Unknown Chris Basic				
Sheet	11	of	27	Attorney Docket Number	28690-705.302

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mcg		GELFAND et al., ASDB: database of alternatively spliced genes, Nucleic Acids Res., 1999, pp.301-302, vol. 27(1)	
		GERHOLD et al, DNA chips: promising toys have become powerful tools, TIBS, 1999, pp168-173, vol. 24	
		GIBSON et al, A Novel Method for Real Time Quantitative RT-PCR, Genome Res., 1996, pp995-1001, vol. 6	
		GIESEN et al., A formula for thermal stability (T <sub>m</sub> ) prediction of PNA/DNA duplexes, Nucleic Acids Research, 1998, pp. 5004-5006, vol. 26(21)	
		GOOD et al., Antisense inhibition of gene expression in bacteria by PNA targeted to mRNA, Nature Biotechnology, 1998, pp. 355-358, vol. 16	
		GORDON et al., Combinatorial Chemistry and Molecular Diversity in Drug Discovery, 1997, John Wiley & Son, New York	
		GORDON et al., Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions, J. Med. Chem., 1994, pp 1385-1401, vol. 37	
		GRANT et al., Human acetyltransferase polymorphisms, Mut. Res., 1997, pp 61-70, vol. 376	

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			Examiner Name	Unknown Chris Basic	
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CM7		GREENBERG et al., Cleavage of Oligonucleotides from Solid-Phase Using o-Nitrobenzyl Photochemistry, J. of Org. Chem., 1994, pp 746-753, vol. 59	
		GREENBERG, Photochemical Release of Protected Oligonucleotides Containing 3'-Glycolate Termini, Tetrahedron, 1995, pp 29-38, vol. 51	
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		GURURAJA et al., Solid-Phase Synthesis of Human Salivary Mucin-Derived O-linked Glycopeptide, Lett Pept. Sci., 1996, pp 79-88, vol. 3	
		GUSCHIN et al., Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips, Anal. Biochem., 1997, pp 203-211, vol. 250	
		HAMMER et al., Practical Approach to Solid-Phase Synthesis of C-terminal Peptide Amides under Mild Conditions Based on a Photolysable Anchoring Linkage, J. Peptide Protein Res., 1990, pp. 31-45, vol. 36	
		HECKEL et al., Oligosaccharide Synthesis on Controlled-Pore Glass as Solid Phase Material, Synlett, 1998, pp. 171-173	

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Examiner Name	<del>Unknown</del> Chris Basic				
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CM3		HEID et al., Real Time Quantitative PCR, Genome Res., 1996, pp. 986-994, vol. 6	
		HERMKENS et al., Solid-Phase Organic Reactions: A review of the Recent Literature, Tetrahedron, 1996, pp. 4527-4554, vol. 52	
		HIGUCHI et al., Simultaneous Amplification and Detection of Specific DNA Sequences, Bio/Technology, 1992, pp. 413-417, vol. 10	
		HIGUCHI et al., Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reaction, Bio/Technology, 1993, pp. 1026-1030, v	
		HOLMES et al., Reagents for Combinatorial Organic Synthesis: Development of a New o-Nitrobenzyl Photoable Linker for Solid Phase Synthesis, J. of Org. Chem., 1995, pp.2318-2319, vol. 60	
		HOLMES et al., Model Studies for New o-Nitrobenzyl Photolabile Linkers: Substituent Effects on the Rates of Photochemical Cleavage, J. of Org. Chem., 1997, pp 2370-2380, vol. 62	
		HUGHES et al., Functional Discovery via a Compendium of Expression Profiles, Cell, 2000, pp. 109-126, vol. 102	

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		ISHIGURO et al., Homogeneous Quantitative Assay of Hepatitis C Virus RNA by Polymerase Chain Reaction in the Presence of a Fluorescent Intercalater, Anal. Biochem., 1995, pp. 207-213, vol. 229	
		ISAKSSON and LANDEGREN, Accessing genomic information: alternatives to PCR, Curr. Opin. Biotechnol., 1999, pp. 11-15, vol. 10	
		ITO et al., Solid-phase oligosaccharide synthesis and related technologies, Curr. Opin. Biotechnol., 1998, pp. 701-708, vol. 2	
		JOOS et al., Covalent Attachment of Hybridizable Oligonucleotides to Glass Supports, Anal. Chem., 1997, pp 96-101, vol. 247	
		KAHL et al., High-Yielding method for On-Column Derivatization of Protected Oligodeoxy-nucleotides and Its Application to the Convergent Synthesis of 5', 3'-Bis-conjugates, J. of Org. Chem., 1998, pp 4870-4871, vol. 63	

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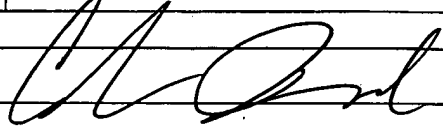
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		KAHN et al., Modern Methods in Carbohydrate Synthesis, Harwood Academic, 1996, Amsterdam	
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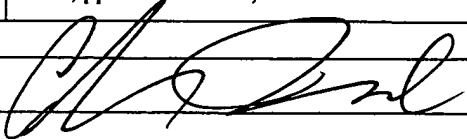
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				Art Unit	<del>1645</del> 1637	
				Examiner Name	<del>Unknown</del> Chris Basic	
Sheet	16	of	27	Attorney Docket Number		28690-705.302«CaseNumber»

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		LANDGREN, et al., Reading Bits of Genetic Information: Methods for Single-Nucleotide Polymorphism Analysis, Genome Research, 1998, 769-776, vol. 8	
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		LLOYD-WILLIAMS, et al., Convergent Solid-phase peptide synthesis, Tetrahedro, 1993, pp 11065-11133, vol. 49	

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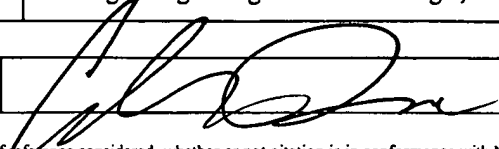
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				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	<del>1645</del> 1637
				Examiner Name	<del>Unknown</del> Chris Bobic
Sheet	24	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CMR		THOMPSON, et al, Synthesis and Applications of Small Molecule Libraries, Chem. Rev., 1996, pp555-600, vol. 96	
		TOSHIMA et al, Recent Progress in O-glycosylation Methods and Its application to Natural Products Synthesis, Chem. Rev, 1993, pp1503-1531, vol. 93	
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				Examiner Name	Unknown <i>Chris Babic</i>	
Sheet	25	of	27	Attorney Docket Number		2860-705.302

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<i>amb</i>		VERMA and ECKSTEIN, MODIFIED OLIGONUCLEOTIDES: Synthesis and Strategy for Users, Annu. Rev. Biochem, 1998, pp99-134, vol. 67	
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		WETMUR, DNA Probes: Applicationis of the Principles of Nucleic Acid Hybridization, Critical Reviews in Biochemistry and Molecular Biology, 1991, pp227-259, vol. 26	

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AMB		WIEDMANN, et al., Ligase Chain Reaction (LCR) - Overview and Applications, PCR Methods Appl, 1994, pp51-64, vol. 3	
		WHITE, High-Throughput Screening in Drug Metabolism and Pharmacokinetic Support of Drug Discovery, Annu. Rev. Pharmacol. Toxicol, 2000, pp133-157, vol. 40	
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		YOUNG, Biomedical Discovery with DNA Arrays, Cell, 2000, pp9-15, vol. 102	

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